

# FileMaker®

Running FileMaker Pro 9  
on Citrix Presentation Server



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# Contents

## Chapter 1

### ***Introduction to Citrix Presentation Server***

About Citrix Presentation Server	5
Application server	5
Citrix Independent Computing Architecture (ICA) protocol	5
Citrix ICA client	5
Benefits of using Citrix Presentation Server	6
System requirements	6
Citrix ICA client minimum requirements	6
Before installing Citrix Presentation Server	6
Installing Citrix ICA client software	6

## Chapter 2

### ***Using FileMaker Pro with Citrix Presentation Server***

Installing FileMaker Pro on Citrix Presentation Server	7
Deployment recommendations	7
Environments for deploying FileMaker Pro files	8
Non-shared files	8
Connecting to FileMaker Server	8
Mac OS Citrix ICA clients	8
FileMaker Pro feature issues	8
FileMaker Knowledge Base articles	8

## Appendix A

### ***Standard requirements***

FileMaker, Inc. standard requirements	9
Volume License Agreement (VLA)	9
Site License Agreement (SLA)	9
Windows Server 2003 and Terminal Services license requirements	9
Citrix license requirements	9

#### **4** *Running FileMaker Pro on Citrix Presentation Server*

# Chapter 1

## ***Introduction to Citrix Presentation Server***

### ***About Citrix Presentation Server***

Citrix Presentation Server™ 4.0 is a server-based application server that runs with Microsoft Windows Server 2003 Terminal Services. Citrix Presentation Server extends the reach of Windows Server 2003 Terminal Services by providing application access by a wider variety of platforms and clients and supporting a wider range of features such as application transparency, better bandwidth performance, enhanced security, load balancing, and much more. Citrix Presentation Server has three components similar to Terminal Services in Windows Server 2003: the server, the client, and the Citrix® Independent Computing Architecture protocol by which the server communicates with the client.

### ***Application server***

Similar to Terminal Services, when you are running Citrix Presentation Server, all applications are run on the server. Also like Terminal Services, the server sends only screen information to the client and receives input only from the client mouse and keyboard. Citrix Presentation Server allows administrators to take server-based application services to a new level by creating seamless applications for clients to access rather than providing an entire Windows Server 2003 desktop environment.

### ***Citrix Independent Computing Architecture (ICA) protocol***

The Citrix Independent Computing Architecture (ICA®) protocol is automatically installed when you install Citrix Presentation Server. The ICA protocol transmits data between the Citrix ICA client and Citrix Presentation Server and is designed for transparent support of Windows applications, low-bandwidth requirements, data compression and encryption.

ICA connections have been tested and are supported with the TCP/IP protocol when FileMaker® Pro runs on Citrix Presentation Server.

**Note** If you have any Terminal Services clients accessing Citrix Presentation Server via RDP, you must enable the TCP/IP protocol on Citrix Presentation Server.

### ***Citrix ICA client***

The Citrix ICA client uses thin-client technology to provide a Windows desktop or a seamless application to users. Unlike with Terminal Services clients, when a seamless application is published for Citrix ICA clients, the application appears as if it is running locally on the client desktop. For both Windows desktops and seamless applications, the client only needs to make a connection to the server, and the server displays any needed visual information to the client, while the client sends back keyboard and mouse information to the server. All of the application processing is done on the server; the application is not actually loaded onto the client.

## ***Benefits of using Citrix Presentation Server***

- Organizations can deploy Windows applications in heterogeneous computing environments regardless of client hardware, operating system, or network connections.
- Users can continue to use their current operating system and applications.
- IT professionals can support specific Windows applications from a single location and manage application deployment, access, performance, security, and reliability.
- Administrators only need to install and update one copy of an application on a server machine and can create a variety of application environments, from complete Windows desktops to seamless application windows.
- Citrix Web Interface working with Citrix Presentation Server is supported in the FileMaker Pro configuration model and allows organizations to integrate applications into any standard Web browser.

## ***System requirements***

The hardware requirements for Citrix Presentation Server depend on how many clients will be connecting at a time and the usage requirements of the clients.

### ***Citrix ICA client minimum requirements***

**Note** Only the following clients are supported by FileMaker, Inc. at this time. Other clients may work as expected but have not been tested for use with FileMaker Pro and are not currently supported.

- Citrix ICA Client 9.150 for 32-bit Windows
- Citrix ICA Client 7.00.407 for Mac OS X

Clients are available from the Citrix web site at [www.citrix.com](http://www.citrix.com).

Windows 2003 Server Terminal Services and Citrix Presentation Server both share executable resources among users, so memory requirements for additional users running the same application are less than the requirements for the first user to load the application.

## ***Before installing Citrix Presentation Server***

Before installing Citrix Presentation Server, Windows Server 2003 Terminal Services SP1 should be set to run in application server mode. For information about enabling Terminal Services, see [www.microsoft.com](http://www.microsoft.com).

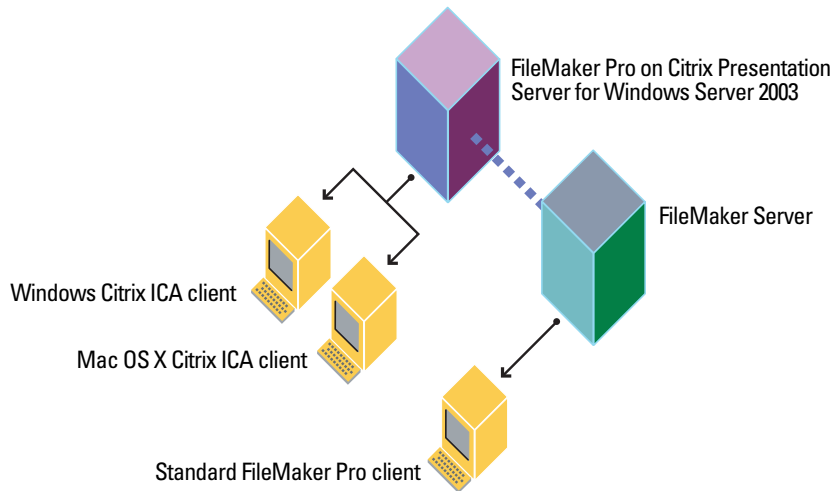
Before installing Citrix Presentation Server, consider carefully the number of users/clients that will be connecting, the types of applications you will be serving to clients, and how your users will be connecting to Citrix Presentation Server.

## ***Installing Citrix ICA client software***

Citrix ICA client software should be installed on every machine that needs to use Citrix Presentation Server. Terminal Services clients will be able to access the server, but will not have the full feature set that Citrix ICA clients get. See your Citrix documentation for information on installing Citrix ICA clients.

# Chapter 2

## *Using FileMaker Pro with Citrix Presentation Server*



### ***Installing FileMaker Pro on Citrix Presentation Server***

**Note** This installation requires FileMaker Pro Worldwide English (Volume License or Site License is required).

To install FileMaker Pro on Windows Server 2003 Terminal Services running Citrix Presentation Server 4.0:

1. Make sure that Terminal Services has already been installed and configured on your Windows Server 2003 SP1 machine, that Citrix Presentation Server 4.0 has been installed, and that you are logged on as administrator.
2. In the Control Panel, double-click Add/Remove Programs.

**Note** Do not directly access the Setup icon on your FileMaker Pro Volume License or Site License CD.

3. Click Add New Programs.
4. Click CD or Floppy, then click Next.

The FileMaker Pro InstallShield Wizard appears.

5. When the License Agreement panel appears, read the Software License Agreement. If you accept the terms of the license agreement, click **I Accept**.
6. Install FileMaker Pro by following the on-screen instructions.

For details about installation issues, see the *Installation and New Features Guide for FileMaker Pro and FileMaker Pro Advanced*.

7. Click Finish when Add/Remove Programs has finished the installation.

### ***Deployment recommendations***

Use a fast Pentium processor, preferably a Pentium III or Pentium 4.

FileMaker supports deployment and development of FileMaker Pro solutions running on Citrix Presentation Server clients. Some aspects of development may not function as expected when developing on Citrix Presentation Server clients. For more information on known technical issues when developing FileMaker Pro solutions on Citrix Presentation Server clients, see [www.filemaker.com/support](http://www.filemaker.com/support).

## ***Environments for deploying FileMaker Pro files***

### ***Non-shared files***

Citrix Presentation Server clients can access FileMaker Pro files that are not shared over a network. Non-shared files can be developed and deployed by Citrix Presentation Server clients just like any non-shared FileMaker Pro file. Shared files and peer-to-peer hosting are not supported on Citrix Presentation Server clients.

**Note** To turn off sharing for a specific file, choose File menu > Sharing > FileMaker Network, select the file, then select No users.

### ***Connecting to FileMaker Server***

You can use FileMaker Server (or FileMaker Server Advanced) to host files to the Citrix Presentation Server server. FileMaker Server will host FileMaker Pro files to ICA clients via the Citrix Presentation Server deploying FileMaker Pro and will continue to host files to standalone FileMaker Pro clients. When a user opens FileMaker Pro running on Citrix Presentation Server, accessing FileMaker Pro files hosted by FileMaker Server is done in the same way as accessing FileMaker Server under normal networking conditions. For more information, see “Opening shared files as a client” in chapter 5 of the *FileMaker Pro User’s Guide*.

**Note** FileMaker Server should not be installed on the same machine with Windows Server 2003 Terminal Services and Citrix Presentation Server.

### ***Mac OS Citrix ICA clients***

When a Mac OS ICA client accesses FileMaker Pro through Citrix Presentation Server, remember that the client will be accessing a Windows application. The shortcut keys used on the Mac OS client will be Windows shortcut keys, and the look and feel of the application will be that of a Windows application.

## ***FileMaker Pro feature issues***

Features not supported for Citrix Presentation Server clients:

- Peer-to-peer hosting
- Web hosting
- JDBC drivers
- xDBC plug-in
- Third party plug-ins. Plug-in developers must test and certify their support for the plug-ins they supply to run under Citrix Presentation Server.

**Note** Only the ICA clients listed in “System requirements” on page 6 are supported at this time. Other clients may work as expected but have not been tested by FileMaker and are not currently supported.

## ***FileMaker Knowledge Base articles***

Check the FileMaker Knowledge Base for articles regarding running FileMaker Pro on Citrix Presentation Server. You can access the FileMaker Knowledge Base from [www.filemaker.com/support](http://www.filemaker.com/support).

# **Appendix A**

## ***Standard requirements***

### ***FileMaker, Inc. standard requirements***

In order to use FileMaker Pro via Citrix Presentation Server, you must purchase a Volume License Agreement (VLA) or a Site License Agreement (SLA) license. Retail packages of FileMaker Pro cannot be used with Presentation Server.

#### ***Volume License Agreement (VLA)***

The FileMaker VLA is a transactional agreement that grants you the right to use the software on as many computers as are listed on your License Agreement.

For information about the VLA, see [www.filemaker.com](http://www.filemaker.com).

#### ***Site License Agreement (SLA)***

The FileMaker SLA allows for any combination of FileMaker Pro, FileMaker Pro Advanced, FileMaker Server, FileMaker Server Advanced and FileMaker Mobile to be installed anywhere in your organization of 50 or more employees or computers.

For more information on licenses, please call 1-800-725-2747 (weekends and holidays excluded). See [www.filemaker.com](http://www.filemaker.com) for details.

### ***Windows Server 2003 and Terminal Services license requirements***

For information about licensing requirements for Windows Server 2003 and Terminal Services, see [www.microsoft.com](http://www.microsoft.com).

### ***Citrix license requirements***

Citrix Presentation Server must be licensed to activate its features and to allow clients to connect to the server. For more information, see [www.citrix.com](http://www.citrix.com).

